<u>District I</u> 1625 N French Dr , Hobbs, NM 88240 District II 1301 W Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S St Francis Dr , Santa Fe, NM 87505

Type of action:



State of New Mexico **Energy Minerals and Natural Resources** Department Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505



Form C-144 June 24, 2008

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office

Pit, Closed-Loop System, Below-Grade Tank, or	
Proposed Alternative Method Permit or Closure Plan Applicat	ion

Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method

JUL 2 4 2008 Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method

Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the

environment. Nor does approval relieve the operator of its responsibility to comp	ply with any other applicable governmental authority's rules, regulations or ordinances			
Operator <u>Chesapeake Operating</u> , Inc.	OGRID # 147179			
Address: P.O. Box 18496 Oklahoma City, OK 73154-0496				
Facility or well name. Queen Lake 20 Federal - 2H				
API Number 30.0/5.36435 OCD Permit Number				
U/L or Qtr/Qtr 0 Section 20 Township 24South Range 29 East County Eddy				
Center of Proposed Design Latitude 32.196536 Longitude -103.002909 NAD NAD 1983				
Surface Owner 📕 Federal 🗌 State 🗌 Private 🔲 Tribal Trust or Indian Allotment				
Pit: Subsection F or G of 19 15 17 11 NMAC	Closed-loop System: Subsection H of 19 15 17 11 NMAC			
Temporary Drilling Workover	☐ Drying Pad ☐ Tanks █ Haul-off Bins ☐ Other			
☐ Permanent ☐ Emergency ☐ Cavitation ☐ Steel Pit	☐ Lined ☐ Unlined			
Lined Unlined	Liner type Thicknessmil			
Liner type Thicknessmil	Other			
Other String-Reinforced	Seams			
Seams: Welded Factory Other	Volumebblyd³			
Volumebbl Dimensions: L x W x D	Dimensions Length x Width			
Below-grade tank: Subsection I of 19 15 17 11 NMAC	Fencing: Subsection D of 19 15 17 11 NMAC			
Volumebbl	☐ Chain link, six feet in height, two strands of barbed wire at top			
Type of fluid:	Four foot height, four strands of barbed wire evenly spaced between one and			
Tank Construction material	four feet			
Secondary containment with leak detection	Netting: Subsection E of 19 15 17.11 NMAC			
☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off	Screen Netting Other			
☐ Visible sidewalls and liner	☐ Monthly inspections			
☐ Visible sidewalls only	Signs: Subsection C of 19 15.17.11 NMAC			
Other	12'x24', 2' lettering, providing Operator's name, site location, and			
Liner type: Thicknessmil HDPE PVC	emergency telephone numbers			
Other	☐ Signed in compliance with 19 15.3.103 NMAC			
Alternative Method:	Administrative Approvals and Exceptions:			
Submittal of an exception request is required Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration	Justifications and/or demonstrations of equivalency are required Please refer to 19 15 17 NMAC for guidance			
of approval	Please check a box if one or more of the following is requested, if not leave			
	blank: Administrative approval(s) Requests must be submitted to the			
	appropriate division district or the Santa Fe Environmental Bureau office for			
	consideration of approval Exception(s) Requests must be submitted to the Santa Fe			
	Environmental Bureau office for consideration of approval			

Siting Criteria (regarding permitting): 19 15 17 10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above-grade tanks associated with a closed-loop system.	
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank - NM Office of the State Engineer - iWATERS database search, USGS; Data obtained from nearby wells	☐ Yes ☐ No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark) - Topographic map, Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application (Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site, Aerial photo, Satellite image	☐ Yes ☐ No ☐ NA
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application (Applies to permanent pits) - Visual inspection (certification) of the proposed site, Aerial photo, Satellite image	☐ Yes ☐ No ☐ NA
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application - NM Office of the State Engineer - iWATERS database search, Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within 500 feet of a wetland - US Fish and Wildlife Wetland Identification map, Topographic map, Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
Within an unstable area - Engineering measures incorporated into the design, NM Bureau of Geology & Mineral Resources, USGS, NM Geological Society, Topographic map	☐ Yes ☐ No
Within a 100-year floodplain - FEMA map	☐ Yes ☐ No
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15 17 9 Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the deattached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19 15 17 9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19 15 17 Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19 15 17 10 NMAC Design Plan - based upon the appropriate requirements of 19 15 17 11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19 15 17 12 NMAC Closure Plan - based upon the appropriate requirements of Subsection C of 19 15.17 9 NMAC and 19.15.17 13 NMAC Previously Approved Design (attach copy of design) API Number	ocuments are 9 NMAC
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19 15 17 9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the deattached. Geologic and Hydrogeologic Data (required for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of Siting Criteria Compliance Demonstrations (required for on-site closure) - based upon the appropriate requirements of 19 15 17 10 Design Plan - based upon the appropriate requirements of 19 15 17 11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15 17 12 NMAC Closure Plan - based upon the appropriate requirements of Subsection C of 19 15 17.9 NMAC and 19.15 17 13 NMAC NMAC Previously Approved Design (attach copy of design) API Number.	f 19 15 17 9

Permanent Pits Permit Application Checklist: Subsection B of 19 15 17 9 NMAC	
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the do	cuments are
attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19 15 17 9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19 15 17 10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19 15 17.11 NMAC	
☐ Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15 17.11 NMAC ☐ Leak Detection Design - based upon the appropriate requirements of 19 15 17 11 NMAC ☐ Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19 15.17.11 NMAC	
Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15 17 12 NMAC	
Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19 15 17.11 NMAC Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan	
Emergency Response Plan Oil Field Waste Stream Characterization	
☐ Monitoring and Inspection Plan☐ Erosion Control Plan	
Closure Plan - based upon the appropriate requirements of Subsection C of 19 15 17.9 NMAC and 19.15 17 13 NMAC Proposed Closure: 19 15 17 13 NMAC	
Type Drilling Workover Emergency Cavitation Permanent Pit Below-grade Tank Closed-loop System	Alternative
Proposed Closure Method Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for control of the Santa Fe	isideration)
Siting Criteria (regarding on-site closure methods only): 19 15 17 10 NMAC	
Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	
Ground water is less than 50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search, USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search, USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is more than 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search, USGS, Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map, Visual inspection (certification) of the proposed site	Yes No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application - Visual inspection (certification) of the proposed site, Aerial photo, Satellite image	☐ Yes ☐ No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database, Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended - Written confirmation or verification from the municipality, Written approval obtained from the municipality	☐ Yes ☐ No
Within 500 feet of a wetland - US Fish and Wildlife Wetland Identification map, Topographic map, Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within the area overlying a subsurface mine - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
Within an unstable area - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources, USGS, NM Geological Society, Topographic map	Yes No
Within a 100-year floodplain - FEMA map	Yes No

Waste Excavation and Removal Closure Plan Checklist: (19 15 17 13 Notes closure plan. Please indicate, by a check mark in the box, that the documents of the control of the		items must be attached to the
Protocols and Procedures - based upon the appropriate requirements	of 19 15 17 13 NMAC	
Confirmation Sampling Plan (if applicable) - based upon the appropri	rate requirements of Subsection F of 19.15 17	13 NMAC
☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids) ☐ Soil Backfill and Cover Design Specifications - based upon the approximation of the second se		17 12 NMAC
Re-vegetation Plan - based upon the appropriate requirements of Sub		17 13 NMAC
Site Reclamation Plan - based upon the appropriate requirements of S		
Waste Removal Closure For Closed-loop Systems That Utilize Haul-off	FRins Only: (19 15 17 13 D NMAC) Instruc	tions: Please indentify the facility
or facilities for the disposal of liquids, drilling fluids and drill cuttings.	(Dins Only. (1) 13 17 13 D Marke) Insulae	nons. Trease macingy me facinity
Disposal Facility NameCRT	Disposal Facility Permit Number	R-9166
On-Site Closure Plan Checklist: (19 15 17 13 NMAC) Instructions: Ea		
by a check mark in the box, that the documents are attached.		•
Siting Criteria Compliance Demonstrations - based upon the appropri		
Proof of Surface Owner Notice - based upon the appropriate requirer Construction and Design of Burial Trench (if applicable) based upon		NMAC
Protocols and Procedures - based upon the appropriate requirements		T (III)
Confirmation Sampling Plan (if applicable) - based upon the appropriate Confirmation Confirmation Confirmation Sampling Plan (if applicable) - based upon the appropriate Confirmation Conf	riate requirements of Subsection F of 19 15 17	' 13 NMAC
Waste Material Sampling Plan - based upon the appropriate requiren		
☐ Disposal Facility Name and Permit Number (for liquids, drilling flui ☐ Soil Cover Design - based upon the appropriate requirements of Sub		standards cannot be achieved)
Re-vegetation Plan - based upon the appropriate requirements of Sub		
Site Reclamation Plan - based upon the appropriate requirements of		
Operator Application Certification:		
I hereby certify that the information submitted with this application is true	accurate and complete to the best of my know	wledge and belief
	Title Sr. Regulator	
Name (Print) Linda Good		y compr. Sp.
Signature Kinda Hook	Date7/22/2008	
e-mail address linda.goodchk.com	Telephone405-767-42	75
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OCD Approval: Permit Application for the plan Clo	Sure Plan (only)	
	Sure Plan (only)	
OCD Approval: Permit Application and general plan Clo	Sure Plan (only) Approval D	ate: 7-28-08
OCD Approval: Permit Application and Source plan Coordinated Coord	Stre Plan (only) Approval D OCD Permit Number: 020	ate: 7-28-08
OCD Approval: Permit Application for the plan Closure Plan Closure Report (required within 60 days of closure completion): Subs	OCD Permit Number: 0 20 cection K of 19 15 17 13 NMAC	ate: 7-28-08
OCD Approval: Permit Application (and in growth of course plan) Cooch OCD Representative Signature: Title: Closure Report (required within 60 days of closure completion): Substitute Sub	Stre Plan (only) Approval D OCD Permit Number: 020	ate: 7-28-08
OCD Approval: Permit Application (and the plan) Cooch Cook Representative Signature: Title: Closure Report (required within 60 days of closure completion): Substitute Substit	OCD Permit Number: 020 cection K of 19 15 17 13 NMAC Closure Completion Date:	ate: 7-28-08
OCD Approval: Permit Application (activity of cosure plan)	OCD Permit Number: 020 cection K of 19 15 17 13 NMAC Closure Completion Date:	ate: 7-28-08
OCD Approval: Permit Application for starting closure plan Closure Report (required within 60 days of closure completion): Substantial Waste Excavation and Removal On-Site Closure Method If different from approved plan, please explain	Approval D OCD Permit Number: 0 20 ection K of 19 15 17 13 NMAC Closure Completion Date: Alternative Closure Method	ate: <u>7-28-08</u> 8194
OCD Approval: Permit Application (activity of cosure plan)	Approval D OCD Permit Number: 0 20 ection K of 19 15 17 13 NMAC Closure Completion Date: Alternative Closure Method	ate: <u>7-28-08</u> 8194
OCD Approval: Permit Application for storing closure plan Closure Report (required within 60 days of closure completion): Substitute: Closure Method: Waste Excavation and Removal On-Site Closure Method If different from approved plan, please explain Closure Report Attachment Checklist: Instructions: Each of the followmark in the box, that the documents are attached. Proof of Closure Notice	Approval D OCD Permit Number: 0 20 ection K of 19 15 17 13 NMAC Closure Completion Date: Alternative Closure Method	ate: <u>7-28-08</u> 8194
OCD Approval: Permit Application for storing closure plan Closure Report (required within 60 days of closure completion): Substitute: Closure Method: Waste Excavation and Removal On-Site Closure Method If different from approved plan, please explain Closure Report Attachment Checklist: Instructions: Each of the followmark in the box, that the documents are attached. Proof of Closure Notice Proof of Deed Notice (if applicable)	Approval D OCD Permit Number: 0 20 ection K of 19 15 17 13 NMAC Closure Completion Date: Alternative Closure Method	ate: <u>7-28-08</u> 8194
OCD Approval: Permit Application for the plan Closure Report (required within 60 days of closure completion): Substitute: Closure Method: Waste Excavation and Removal On-Site Closure Method If different from approved plan, please explain Closure Report Attachment Checklist: Instructions: Each of the follow mark in the box, that the documents are attached. Proof of Closure Notice Proof of Deed Notice (if applicable) Plot Plan	Approval D OCD Permit Number: 0 20 ection K of 19 15 17 13 NMAC Closure Completion Date: Alternative Closure Method	ate: <u>7-28-08</u> 8194
OCD Approval: Permit Application for the plan Closure Report (required within 60 days of closure completion): Substitute: Closure Method: Waste Excavation and Removal On-Site Closure Method If different from approved plan, please explain Closure Report Attachment Checklist: Instructions: Each of the follow mark in the box, that the documents are attached. Proof of Closure Notice Proof of Deed Notice (if applicable) Plot Plan Confirmation Sampling Analytical Results	Approval D OCD Permit Number: 0 20 ection K of 19 15 17 13 NMAC Closure Completion Date: Alternative Closure Method	ate: <u>7-28-08</u> 8194
OCD Approval: Permit Application for the plan Closure Report (required within 60 days of closure completion): Substitute: Closure Method: Waste Excavation and Removal On-Site Closure Method If different from approved plan, please explain Closure Report Attachment Checklist: Instructions: Each of the follow mark in the box, that the documents are attached. Proof of Closure Notice Proof of Deed Notice (if applicable) Plot Plan Confirmation Sampling Analytical Results Waste Material Sampling Analytical Results Disposal Facility Name and Permit Number	Approval D OCD Permit Number: 0 20 ection K of 19 15 17 13 NMAC Closure Completion Date: Alternative Closure Method	ate: <u>7-28-08</u> 8194
OCD Approval: Permit Application for the plan Closure Report (required within 60 days of closure completion): Substitute: Closure Method: Waste Excavation and Removal On-Site Closure Method If different from approved plan, please explain Closure Report Attachment Checklist: Instructions: Each of the follow mark in the box, that the documents are attached. Proof of Closure Notice Proof of Deed Notice (if applicable) Plot Plan Confirmation Sampling Analytical Results Waste Material Sampling Analytical Results Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation	Approval D OCD Permit Number: 0 20 ection K of 19 15 17 13 NMAC Closure Completion Date: Alternative Closure Method	ate: <u>7-28-08</u> 8194
OCD Approval: Permit Application for the plan Closure Report (required within 60 days of closure completion): Substitute: Closure Method: Waste Excavation and Removal On-Site Closure Method If different from approved plan, please explain Closure Report Attachment Checklist: Instructions: Each of the follow mark in the box, that the documents are attached. Proof of Closure Notice Proof of Deed Notice (if applicable) Plot Plan Confirmation Sampling Analytical Results Waste Material Sampling Analytical Results Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique	Approval D OCD Permit Number: 0 20 ection K of 19 15 17 13 NMAC Closure Completion Date: Alternative Closure Method	ate: <u>7-28-08</u> 8194
OCD Approval: Permit Application for the plan Closure Report (required within 60 days of closure completion): Substitute: Closure Method: Waste Excavation and Removal On-Site Closure Method Application of the following formula in the box, that the documents are attached. Proof of Closure Notice Proof of Deed Notice (if applicable) Plot Plan Confirmation Sampling Analytical Results Waste Material Sampling Analytical Results Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation)	Approval D OCD Permit Number: 0 20 cection K of 19 15 17 13 NMAC Closure Completion Date: Alternative Closure Method wing items must be attached to the closure region.	ate: 7-28-08 § 194 port. Please indicate, by a check
OCD Approval: Permit Application for desiring closure plan Closure Report (required within 60 days of closure completion): Substitute: Closure Method: Waste Excavation and Removal On-Site Closure Method If different from approved plan, please explain Closure Report Attachment Checklist: Instructions: Each of the follow mark in the box, that the documents are attached. Proof of Closure Notice Proof of Deed Notice (if applicable) Plot Plan Confirmation Sampling Analytical Results Waste Material Sampling Analytical Results Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) On-site Closure Location Latitude	Approval D OCD Permit Number: 0 20 cection K of 19 15 17 13 NMAC Closure Completion Date: Alternative Closure Method wing items must be attached to the closure region.	ate: 7-28-08 § 194 port. Please indicate, by a check
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OCD Approval: Permit Application and glosure plan Closure Report (required within 60 days of closure completion): Substitute: Closure Method: Waste Excavation and Removal On-Site Closure Method If different from approved plan, please explain Closure Report Attachment Checklist: Instructions: Each of the follow mark in the box, that the documents are attached. Proof of Closure Notice Proof of Deed Notice (if applicable) Plot Plan Confirmation Sampling Analytical Results Waste Material Sampling Analytical Results Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) On-site Closure Location Latitude Operator Closure Certification: I hereby certify that the information and attachments submitted with this clobelief I also certify that the closure complies with all applicable closure re	Approval D OCD Permit Number: 020 cection K of 19 15 17 13 NMAC Closure Completion Date: Alternative Closure Method wing items must be attached to the closure region in the complete to equirements and conditions specified in the appropriate to equipment to the conditions are considered.	nate: 7-28-08 Please indicate, by a check NAD. 1927 1983 the best of my knowledge and proved closure plan
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OCD Approval: Permit Application for stating closure plan Closure Report (required within 60 days of closure completion): Substation Closure Method:	Approval D OCD Permit Number:	port. Please indicate, by a check NAD. 1927 1983 the best of my knowledge and proved closure plan
OCD Approval: Permit Application and glosure plan Closure Report (required within 60 days of closure completion): Substitute: Closure Method: Waste Excavation and Removal On-Site Closure Method If different from approved plan, please explain Closure Report Attachment Checklist: Instructions: Each of the follow mark in the box, that the documents are attached. Proof of Closure Notice Proof of Deed Notice (if applicable) Plot Plan Confirmation Sampling Analytical Results Waste Material Sampling Analytical Results Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) On-site Closure Location Latitude Operator Closure Certification: I hereby certify that the information and attachments submitted with this clobelief I also certify that the closure complies with all applicable closure re	Approval D OCD Permit Number:	nate: 7-28-08 Please indicate, by a check NAD. 1927 1983 the best of my knowledge and proved closure plan

Chesapeake Operating, Inc.'s Closed Loop System Queen Lake 20 Federal # 2H Unit O, Sec. 20, T-24-S R-29-E Eddy Co., NM API #: TBD

Equipment & Design:

Chesapeake Operating, Inc. is to use a closed loop system with roll-off steel pits.

- (2) King Cobra linear shale shakers
- (1) Derrick D1000 centrifuge
- (1) 500 bbl "frac" tank" for fresh water
- (1) 500 bbl "frac tank" brine water

Operations & Maintenance:

During each and every tour, the rig's drilling crew will inspect and monitor closely the drilling fluids contained within the steel pits and visually monitor any spill which may occur.

Within 48 hours should a spill, release or leak occur, the NMOCD District II office in Artesia (575-7483-1283) will be notified. Please note that notifications may be made earlier to the district office should a greater release occur.

This is in keeping with the reporting requirements of NMOCD's rule 116.

Closure:

During and after drilling operations, liquids (which apply), all drill cuttings and drilling fluids will be hauled and disposed to the Controlled Recovery, Inc.'s location.

The permit number for the Queen Lake 20 Federal # 2H well is: R-9166